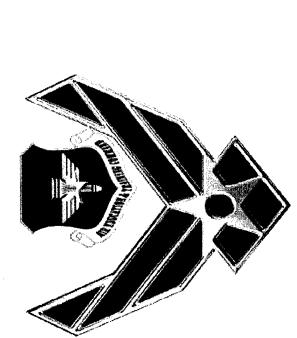
Air Education and Training Command

Sustaining the Combat Capability of America's Air Force

20031117 067



Occupational Survey Report

AFSC 2A3X1

AVONICS SYSTEMS A-10/F-15/U-2

















































Dr. Burke Burright 10 July 03

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Air Force Occupational Measurement SQ



AFOMS/OA

1550 Fifth Street East Randolph AFB, TX 78150 DSN 487–6811 https://www-r.omsq.af.mil/OMY/indexomy.htm

Overview





Survey results

Implications





Work Performed





- Isolate malfunctions, repair, and inspect A-10, F-15, and U-2 integrated avionics systems at organizational levels
- Inspect, service, and perform general aircraft handling procedures



Survey Background





Last occupational survey report (OSR) June 1996 Current survey developed: March - June 2002

Sheppard AFB TX (Tech School)

Nellis AFB NV

Beale AFB CA

Barnes ANGB MA

Otis ANGB MA

Occupational Analysis Products Occupational Measurement Squadron UNCLASSIFIED

AVONICS SYSTEMS

Distribution Unlimited)

S



Survey Background



- Survey initiated to obtain data to:
- Evaluate current classification and training documents
- Support promotion test development
- Current survey data collected: July November 2002
- Components surveyed:
- Active Duty: 3-, 5-, and 7-skill levels
- Guard: 5- and 7-skill levels

Occupational Measurement Squadron Occupational Analysis Products

AVONICS SYSTEMS A-10/F-15/U-2 2A3X1





- Career ladder shredded out at 3- and 5-skill evels
- Shred A: Avionics Attack Control Systems
- Shred B: Avionics Instrument and Flight Control Systems
- Shred C: Avionics Communications, Navigation, and Penetration Aids Systems
- Drop shreds at 7-skill level



Current Training Program



Electronic Principles at Keesler AFB, MS

AFSC-awarding courses

Six AFSC-awarding courses

All at Sheppard AFB, TX

17 to 27 semester hours for CCAF

Programmed TPR

03: 275 students

04: 358 students

Programmed Elimination Rate

03: 4%

04: 4%



Current Training Program





Six AFSC-awarding courses

- J3ABR2A331A 003: F-15 Avionics Attack Control Systems Apprentice (13 weeks and 1 day)
- J3ABR2A331B 003: F-15 Avionics Instrument and Flight Control Systems Apprentice (15 weeks and 3 days)
- J3ABR2A331C 003: F-15 Avionics Communication, Navigation, and Penetration Aids Systems Apprentice (15 weeks and 3 days)
- J3ABR2A331A 004: A-10 (MRA) Avionic Attack and Control Systems *Apprentice* (10 weeks and 2 days)
- J3ABR2A331B 004: A-10 (MRA) Avionic Instrument and Flight Control Systems Apprentice (14 weeks and 3 days)
- J3ABR2A331C 004: A-10 (MRA) Avionic Communication, Navigation, and Penetration Aids Systems Apprentice (15 weeks)

Note: Airmen preparing to work on U-2 go through A-10 courses



Survey Sample Characteristics



| Assigned* | <u>AD</u> 1,334 | ANG 188 | <u>Total</u> 1,522 |
|----------------|--------------------|------------|-----------------------|
| Eligible | 1,115 | 158 | 1,273 |
| Sample | 644 | 80 | |
| Usable Returns | 28% | 21% | %29 |

Average time in career field for AD: 7 yrs 3 months

Average TAFMS for AD: 7 yrs 9 months

Percent of AD in first enlistment: 36%

* Assigned as of June 2002





Skill-Level Distribution

| | Assigned* | Sample |
|---------|-----------|--------|
| 3-Level | 29% | 27% |
| 5-Level | 46% | 21% |
| 7-Level | 25% | 22% |

Paygrade Distribution

| | Assigned* | Sample |
|-----------|-----------|--------|
| E-1 - E-3 | 19% | 17% |
| E-4 | 25% | 25% |
| E-5 | %67 | 34% |
| E-6 | 16% | 19% |
| E-7 | 11% | 2% |

* Assigned as of June 2002

Command Representation



















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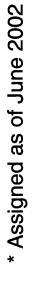
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Sample %

| Assigned %* | 43 | 16 | 13 | 10 | 2 | 12 | - |
|-------------|-----|-------|------|-------|------|-----|-------|
| Command | ACC | PACAF | AETC | USAFE | AFMC | ANG | OTHER |



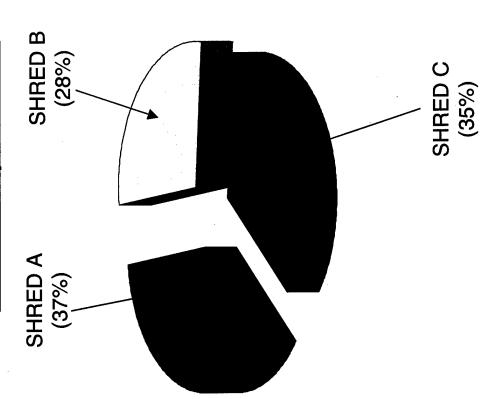
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SHRED C (37%)

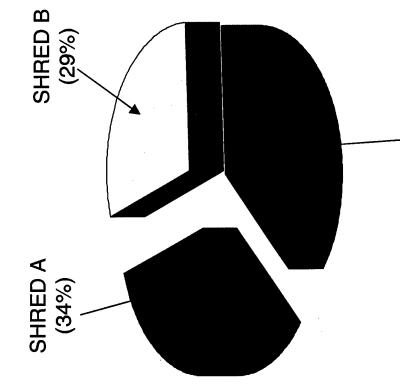
AFSC 2A3X1 Shred Structure 3- and 5-Skill Levels







Sample



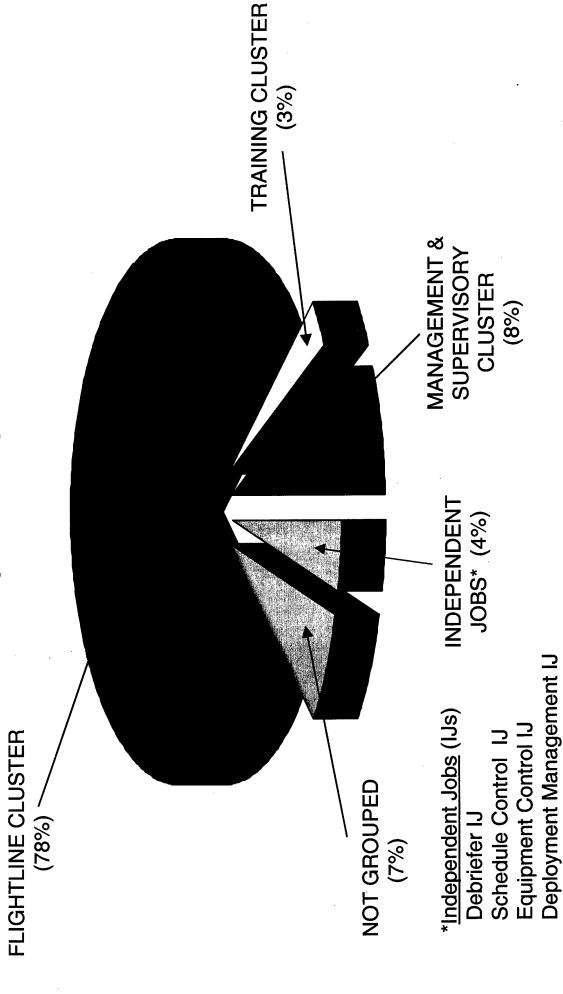


AFSC 2A3X1 Career Ladder Job Structure





(N = 724)



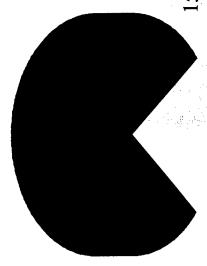


Flightline Cluster (N=562)



- Troubleshoot aircraft wiring
- Safety wire components
- Repair aircraft wiring
- Trace wiring, system, or interface diagrams
- Inspect aircraft wiring
- Troubleshoot multipin connectors
- Inspect chafing problem areas
- Troubleshoot coaxial cables and connectors

| Wiring and Cable Job | U-2 Electronic Warfare Job |
|------------------------------------|--|
| F-15 Attack Control Systems Job | Communications, Navigation, and Penetration Aids Job |
| F-15 Flight Control Job | U-2 Flight Control Job |
| F-15 Mid-Career Generalist Job | Career Generalist Job U-2 Communications Job |
| A-10 Mid-Career Generalist Job | |





Training Cluster (N=21)





- Conduct formal course classroom training
- Personalize lesson plans
- Counsel trainees on training progress
- Evaluate progress of trainees
- Administer or score tests
- Trace wiring, system, or interface diagrams
- Maintain training records or files
- Conduct CAMS training

3%

Continuation Training Instruction Job Technical School Instruction Job

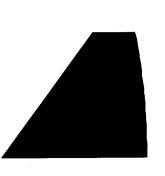


Management and Supervision Cluster (N=58)



- Evaluate personnel for compliance with performance standards
- Conduct on-the-job training (OJT)
- Counsel subordinates concerning personal matters
- Inspect personnel for compliance with military standards
- Conduct supervisory performance feedback sessions
- Interpret policies, directives, or procedures for subordinates
- Write or indorse military performance reports

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Independent Jobs





Debriefer IJ (N=10)

- **Debrief aircrews**
- Analyze computerized-fault reporting system (CFRS) data
- Update and maintain CFRS data

Schedule Control 1J (N=6)

- Determine or establish work assignments or priorities
- Adjust daily maintenance plans to meet operational commitments
- Maintain or update status indicators, such as boards, graphs, or charts



Independent Jobs (Cont.)





Equipment Control IJ (N=7)

- Issue or log turn-ins of equipment, tools, parts, or supplies
- Inventory equipment, tools, parts, or supplies
- Pick up, deliver, or store equipment, tools, parts or supplies

Deployment Management IJ (N=6)

- Coordinate mobility or contingency requirements with appropriate agencies
- Request or distribute mobility requirement documents
- Assign personnel to mobility or contingency positions



Career Ladder Progression





- 3- and 5-skill levels
- Most work in Flightline Cluster
- 5-skill-level personnel have broader jobs
- A few 5-skill-level personnel move into niche and management jobs
- 7-skill level
- A majority continue to perform technical tasks
- Approx. one-fourth of 7-skill-level personnel in management and supervision jobs



Specialty Jobs DAFSC



| | DAFSC | DAFSC | DAFSC |
|------------------------------------|---------|---------|---------|
| | 2A331 | 2A351 | 2A371 |
| Specialty Jobs | (N=198) | (N=367) | (N=159) |
| Flightline Cluster | 06 | 85 | 52 |
| Training Cluster | 0 | വ | - |
| Debriefer IJ | * | 0 | 7 |
| Management and Supervision Cluster | 0 | 4 | 28 |
| Schedule Control IJ | 0 | * | က |
| Equipment Control IJ | Ŋ | ₩- | 0 |
| Deployment Management IJ | 0 | 0 | 4 |
| Not Grouped | ∞ | 9 | 10 |
| | | | |

^{*} Indicates less than 1%



Percent Time Spent on Duties Career Ladder Progression



| | DAFSC | DAFSC | DAFSC |
|---|---------|---------|---------|
| | 2A331 | 2A351 | 2A371 |
| <u>Duties</u> | (N=198) | (N=367) | (N=159) |
| A. Performing General Avionic Systems | 20 | 16 | 7 |
| Maintenance Activities | | | |
| B. Maintaining Attack Control Systems | 18 | 16 | တ |
| C. Maintaining Instrument and Flight Control Systems | 23 | 18 | 13 |
| D. Maintaining Communications, Navigation, and | 18 | 17 | 10 |
| Penetration Aids Systems | | | |
| E. Performing General Aircraft Handling or CUT Activities | 10 | 7 | 2 |
| F. Performing Maintenance Management Activities | 5 | 9 | ∞ |
| G. Performing General Administration and Technical | 7 | 4 | ∞ |
| Order (TO) System Activities | | | |
| H. Performing General Supply and Equipment Activities | 7 | က | 4 |
| I. Performing Mobility and Contingency Activities | * | 2 | 2 |
| J. Performing Training Activities | * | 5 | ∞ |
| K. Performing Management and Supervisory Activities | * | 9 | 19 |

Indicates less than 1%

Note: Columns may not add to 100% due to rounding

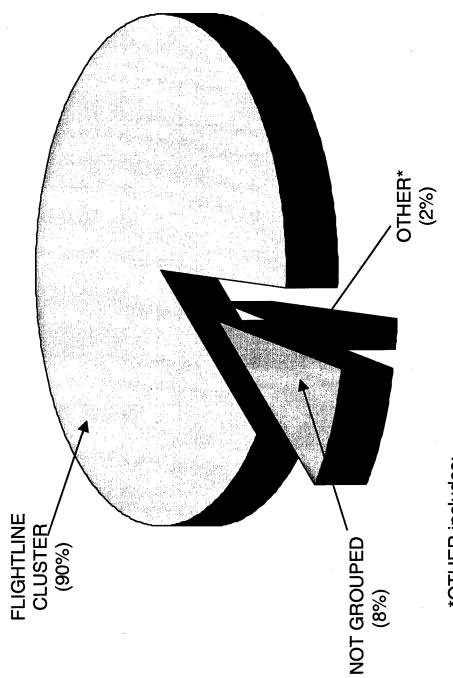


First-Enlistment Job Structure





(N = 254)



Debriefer IJ Equipment Control IJ *OTHER includes:

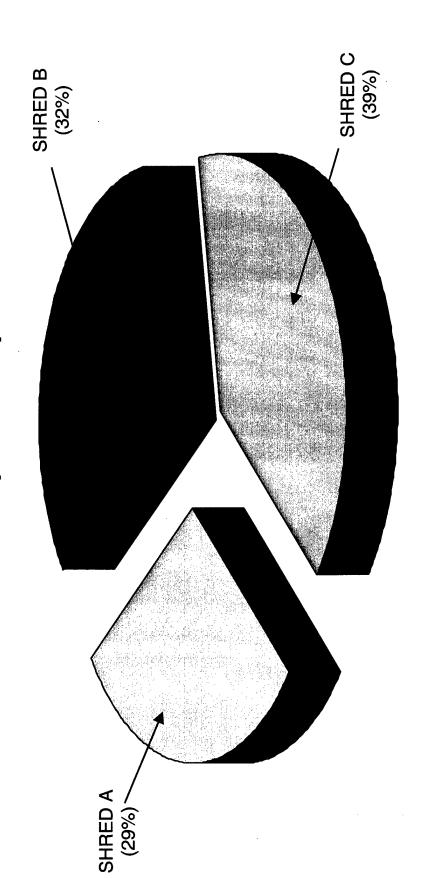


First-Enlistment Group by Shreds





(N = 254)





First-Enlistment Personnel Representative Tasks



Performing Members **Percent**

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| Tasks | (N=25 |
|--|-------|
| Troubleshoot aircraft wiring | 92 |
| Safety wire components | 89 |
| Trace wiring, system, or interface diagrams | 87 |
| Inspect aircraft wiring | 86 |
| Repair aircraft wiring | 86 |
| Troubleshoot multipin connector | 84 |
| Inspect chafing problem areas | 82 |
| Inspect coaxial cables and connectors | 80 |
| Remove, replace, or repair multipin connectors | 79 |
| Inspect multipin connectors | 78 |
| Repair chafed areas | 77 |
| Troubleshoot coaxial cables and connectors | 9/ |
| Update and maintain CAMS data | 75 |
| Remove, replace, or repair coaxial connectors | 73 |



Specialty Training Standard (STS) Analysis



- Evaluated four of five sections of STS
- Each section evaluated with shred- and aircraft-specific
- Did not evaluate electronics principles section of STS
- STS is generally supported by survey data
- Seven STS items were unsupported
- Many technical tasks from Duty A were performed by 20% or more of members but not referenced to in the four evaluated sections of the STS
- Review electronics principles section of STS for possible references

27

Unsupported STS Elements



| Examples Percent Members Prof 1st 3- Code 1st 3- Code ENL LV Code | rs ng 3- TNG LVL EMP* 17 1.08 | TSK DIF** | ** ATI*** 3 2 |
|--|---|----------------------|------------------|
| Prof 1st Code ENL 2b ENL 2b ENL 3b ENL 3c ENL 3 | | TSK DIF** 5.03 | ATI*** |
| Learning Objective Code ENL AF Form 2005 (SUPPLY 2b DISCIPLINE) H0495 Initiate request for equipment, tools, parts, and supplies LASTE Analysis (A-10 LOW 2b ALTITUDE SAFETY TARGET ENHANCEMENT SYSTEM) B0135 Troubleshoot LASTE system 10 Isolate malfunctions (A-10 TURBINE ENGINE MONITORING SYSTEM) C0284 Troubleshoot TEMS 10 | | TSK DIF** | ATI*** |
| Learning Objective Code ENL AF Form 2005 (SUPPLY 2b DISCIPLINE) H0495 Initiate request for equipment, tools, parts, and supplies LASTE Analysis (A-10 LOW 2b ALTITUDE SAFETY TARGET ENHANCEMENT SYSTEM) B0135 Troubleshoot LASTE system 10 Isolate malfunctions (A-10 TURBINE ENGINE MONITORING SYSTEM) C0284 Troubleshoot TEMS 10 | | 5.03 | ATI*** |
| AF Form 2005 (SUPPLY DISCIPLINE) H0495 Initiate request for equipment, tools, parts, and supplies LASTE Analysis (A-10 LOW ALTITUDE SAFETY TARGET ENHANCEMENT SYSTEM) B0135 Troubleshoot LASTE system Isolate malfunctions (A-10 TURBINE ENGINE MONITORING SYSTEM) C0284 Troubleshoot TEMS 10 | | 5.03 | 2 |
| H0495 Initiate request for equipment, tools, parts, and supplies LASTE Analysis (A-10 LOW ALTITUDE SAFETY TARGET ENHANCEMENT SYSTEM) B0135 Troubleshoot LASTE system 10 Isolate malfunctions (A-10 TURBINE ENGINE MONITORING SYSTEM) C0284 Troubleshoot TEMS 10 | | 5.03 | 2 |
| tools, parts, and supplies LASTE Analysis (A-10 LOW ALTITUDE SAFETY TARGET ENHANCEMENT SYSTEM) B0135 Troubleshoot LASTE system Isolate malfunctions (A-10 TURBINE ENGINE MONITORING SYSTEM) C0284 Troubleshoot TEMS 10 | | | |
| LASTE Analysis (A-10 LOW ALTITUDE SAFETY TARGET ENHANCEMENT SYSTEM) B0135 Troubleshoot LASTE system Isolate malfunctions (A-10 TURBINE ENGINE MONITORING SYSTEM) C0284 Troubleshoot TEMS 10 | | | |
| ALTITUDE SAFETY TARGET ENHANCEMENT SYSTEM) B0135 Troubleshoot LASTE system Isolate malfunctions (A-10 TURBINE - ENGINE MONITORING SYSTEM) C0284 Troubleshoot TEMS | | | |
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| Isolate malfunctions (A-10 TURBINE - ENGINE MONITORING SYSTEM) C0284 Troubleshoot TEMS | 2 2.64 | 6.11 | 2 |
| ENGINE MONITORING SYSTEM) C0284 Troubleshoot TEMS | | | |
| 10 | | | |
| | 4 2.02 | 5.56 | N |
| Perform operational checkout (A-10 - | | | |
| LIGHTWEIGHT AIRBORNE | | | |
| RECOVERY SYSTEM) | | | |
| Task D0367 Troubleshoot LARS 7 10 | 10 2.19 | 5.10 | N |

**Mean TD Rating is 5.00, Standard Deviation is 1.00 (HIGH TD > 6.00) *Mean TE Rating is 2.96, Standard Deviation is 1.65 (HIGH TE > 4.61)

***ATI (Automatic Training Indicator) is training decision value for residential training

(18 = HIGH; 1 = LOW)



Tasks not Referenced to STS



Examples

| Percent Members | Performing | 3- TNG | ENL LVL EMP* DIF** ATI*** | 84 5.86 5.34 | 75 5.08 | 89 5.72 6.98 | 79 | |
|--------------------|------------|--------|---------------------------|-------------------------------|-----------------------------------|-----------------------------------|-----------------------------|------------|
| | | | Tasks | A0006 Inspect aircraft wiring | A0010 Inspect multipin connectors | A0039 Troubleshoot coaxial cables | A0041 Troubleshoot multipin | connectors |

*Mean TE Rating is 2.96, Standard Deviation is 1.65 (HIGH TE > 4.61)



Plan of Instruction (POI) Analysis

- NSIS SISSIBLE OF THE PROPERTY OF THE PROPERTY
- Learning objectives involving safety practices and ordering LRUs not well supported in most POIs
- Duty A to ensure they are taught in the *Electronic* Tech school review non-referenced tasks from Principles course
- ATIs are not referenced to learning objectives in Tasks from corresponding Duty Areas with high five of six POIs
- Duties B, C, and D correspond to Shreds A, B, and C, respectively
- Only the F-15 Avionics Attack Control Systems Apprentice course provides nearly full coverage of corresponding Duty Area



Unsupported POI Objectives



Percent Examples

Members

Performing

DNF TNG

EMP*

Tasks

complete AF Form 2005 for ordering LRUs with Given Work Unit Code Manual and a scenario,

no more than one instructor assist

Initiate requisition for equipment, tools, or supplies

13

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1.08

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4.40

the exterior and interior maintenance ground safety IV.5.a Using applicable TOs, and an A-10 aircraft, perform

checks with no more than two instructor assists

Inspect aircraft landing gear systems

E0390

Perform operational checks of aircraft seat

adjustment system

Inspect halon bottles

ကက

1.03 3.42 0.61

4.72 3.16 3.39

**Mean TD Rating is 5.00, Standard Deviation is 1.00 (HIGH TD > 6.00) *Mean TE Rating is 2.96, Standard Deviation is 1.65 (HIGH TE > 4.61)

***ATI (Automatic Training Indicator) is training decision value for residential training

(18 = HIGH; 1 = LOW)

2A3X1



Tasks not Referenced to POIs



Examples

Members

Percent

| | | Perfori | ming | , | 1 | | |
|--------------|--|-------------|---------|---------|-------|---------------|--|
| | | - St | က် | DN L | | | |
| Tasks | | EN | ENL LVL | EMP* | DIF** | <u>ATI***</u> | |
| B0074 | B0074 Operationally check overload | 6/ | 80 | 5.36 | | 48 | |
| | warning systems (OWSs) | | | | | | |
| B0128 | Troubleshoot HUD systems | 83 | 100 | 4.75 | 5.48 | 18 | |
| C0254 | C0254 Troubleshoot control stick grips | 83 | 83 | 5.33 | 2.68 | 18 | |
| C0245 | C0245 Troubleshoot AFCSs | 92 | 29 | 5.19 | 92.9 | 2 | |
| D0359 | D0359 Troubleshoot FDLs | 09 | 65 | 4.69 | 6.36 | 18 | |
| D0304 | Operationally or BIT check | 99 | 53 | 5.19 | 5.01 | 18 | |
| | EWW systems | | | | | | |

**Mean TD Rating is 5.00, Standard Deviation is 1.00 (HIGH TD > 6.00) *Mean TE Rating is 2.96, Standard Deviation is 1.65 (HIGH TE > 4.61)

***ATI (Automatic Training Indicator) is training decision value for residential training

31

(18 = HIGH; 1 = LOW)



(AFSC 2A3X1 vs. Comparative Sample) Job Satisfaction Indicators



| | 1-48 N | -48 Months | 49-96 | 49-96 Months | 97+ Months | onths |
|-------------------------|--------------------------|------------------------------|--------------------------|----------------------------|--------------------------|------------------------------|
| | 2003 2A3X1 (N=254) | Comp Sample* (N=1,592) | 2003 2A3X1 (N=140) | Comp Sample* (N=714) | 2003 2A3X1 (N=245) | Comp Sample* (N=2,191) |
| Job interesting | 65 | 29 | 99 | 89 | 75 | 92 |
| Talents well utilized | 79 | 79 | 82 | 78 | 87 | 86 |
| Training well utilized | 88 | 06 | 06 | 68 | 83 | 84 |
| Sense of accomplishment | 63 | 69 | 64 | 89 | 99 | 84 |
| Plan to reenlist | 42 | 51 | 61 | 62 | 65 | 64 |

^{*} Comparative sample of AFSCs surveyed in the last 24 months includes: Aerospace Maintenance (AFSC 2A5X1), Helicopter Maintenance (AFSC 2A5X2), Nondestructive Inspection (AFSC 2A7X2), and Survival Equipment (AFSC 2A7X4).



(Current vs. Previous Study) Job Satisfaction Indicators





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Talents well utilized

Training well utilized

accomplishment Sense of

Plan to reenlist

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|--------|--|
| | |
| Months | |
| 48 | |

| 1996 | (N=455 |
|------|--------|
| 2003 | J=254) |

| onths | 1996 (N=503) |
|-------|-----------------|
| 97+ M | 2003 (N=245) |
| | |

| 75 | |
|----|--|



Job Satisfaction Indicators Across Specialty Jobs



| | FLIGHTLINE CLUSTER (N=562) | TRAINING CLUSTER (N=21) | DEBRIEFER IJ (N=10) | MNGMT & SUPERV. CLUSTER (N=58) | |
|-------------------------|----------------------------------|-------------------------------|---------------------------|---|---|
| Job interesting | 72 | 22 | 80 | 69 | |
| Talents well utilized | 85 | 86 | 100 | 8 | |
| Training well utilized | 06 | 98 | 100 | 75 | · |
| Sense of accomplishment | 89 | 29 | 06 | 53 | |
| Plan to reenlist | 29 | 92 | 50 | 41 | |



Across Specialty Jobs (cont.) Job Satisfaction Indicators



| DEPLOYMENT MGMT. IJ | (N=6) (N=6) | 29 | 29 | 29 | 67 |
|-------------------------|----------------------|-----|----|-----|-----|
| EQUIPMENT CONTROL LI | (N=7) (N=7) 14 | 28 | 4 | 59 | 57 |
| SCHEDULE | 100 100 | 100 | 83 | 100 | 100 |
| | | | | | |

Job interesting

Talents well utilized

Training well utilized

Sense of accomplishment

Plan to reenlist



First-Term Airmen (N=254) Retention Dimensions



| | Percent | |
|---|------------|---------|
| Planning to Reenlist (N=106) | Responding | Average |
| Job security | 74 | 2.49 |
| Bonus or special pay | 65 | 2.45 |
| Retirement benefits | 64 | 2.46 |
| Medical/dental care for AD members | 62 | 2.52 |
| Military-related education & training opportunities | 62 | 2.30 |
| | | |

Planning to Separate (N=143)

| 2.14 | 2.28 | 2.47 | 2.63 | 2.25 |
|--------------------|--------------------|--------------|---------------|------------------------|
| 62 | 99 | 52 | 20 | 20 |
| | | | | |
| Military lifestyle | Pay and allowances | Unit manning | Work schedule | Recognition of efforts |

2A3X1



Second-Term Airmen (N=140) Retention Dimensions



| | Percent | |
|--|------------|---------|
| Planning to Reenlist (N=85) | Responding | Average |
| Retirement benefits | 65 | 2.65 |
| Job security | 62 | 2.62 |
| Pay and allowances | 53 | 2.29 |
| Medical/dental care for family members | 49 | 2.43 |
| Medical/dental care for AD member | 47 | 2.42 |

Planning to Separate (N=52)

| 71 2.59 | 65 2.53 | 65 2.50 | 65 2.21 | 58 2.33 |
|---------------|--------------------|--------------|--------------------|------------------------|
| Work schedule | Pay and allowances | Unit manning | Military lifestyle | Esprit de corps/morale |

Scale: 1 = slight influence, 2 = moderate influence, 3 = strong influence



Retention Dimensions Career Airmen (N=245)



| | Percent | |
|-----------------------------------|------------|---------|
| Planning to Reenlist (N=159) | Responding | Average |
| Retirement benefits | 75 | 2.62 |
| Job security | 09 | 2.56 |
| Pay and allowances | 52 | 2.45 |
| Military lifestyle | 47 | 2.37 |
| Medical/dental care for AD member | 46 | 2.45 |
| Planning to Separate (N=30) | | |
| Work schedule | 20 | 2.64 |
| - | ļ | . ! |

Scale: 1 = slight influence, 2 = moderate influence, 3 = strong influence



Summary of Results



Specialty Jobs

- 80% of personnel perform flightline maintenance
- U-2 maintainers remain highly specialized

Career ladder progression

- Technical focus at 3-, 5-, and 7-skill levels
- Jobs broaden as airmen gain experience

Career ladder documents

- STSs provide comprehensive coverage of work performed by career ladder
- Five out of six 3-level AFSC-awarding courses should include more tasks

Job satisfaction

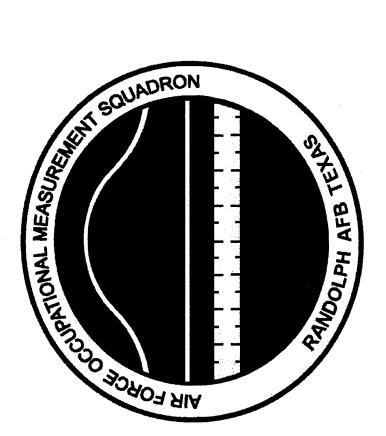
- Overall job satisfaction is positive
- Decline in 1st and 2nd enlistment job satisfaction since 1996
- Airmen in the Equipment Control IJ have very low job satisfaction

Retention dimensions

- Airmen stay for money and benefits
- Airmen get out because the pay is not worth the long work hours

Questions?





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E-Mail: Burke.Burright@randolph.af.mil



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